

Date: Mon, 31 Jan 94 23:38:44 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #97  
To: Info-Hams

Info-Hams Digest                      Mon, 31 Jan 94                      Volume 94 : Issue    97

Today's Topics:

    Contacts for arranging formal sked with SAREX?  
        CW filters and DSP-9  
        FCC form 610-V  
        FTP site for Keps  
        LAMARSfest is March 27th!!!!  
    Name of Ham store in VA wanted! (2 msgs)  
    Online Repeater Database Helper Program  
    Quake Alert via Amateur Radio  
        SuperMorse 4.xx  
    Voice of America News Now Available on Internet  
    Your experiences on 40 meter CW QRP

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
-----

Date: 29 Jan 94 21:43:18 GMT  
From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!noc.near.net!  
news.delphi.com!BIX.com!arrl@network.ucsd.edu  
Subject: Contacts for arranging formal sked with SAREX?  
To: info-hams@ucsd.edu

rcamama@dewey.cc.utexas.edu (Robert Camama) writes:

>As the header reads, is there any way I can contact the SAREX (Shuttle  
>Amateur Radio eXperiment) coordinator or anyone else in a significant position  
>within the SAREX program? I am with the UT Amateur Radio Club, and we

>need to arrange a formal communications schedule [if possible] between  
>ourselves and the astronaut-hams aboard two of the SAREX carrying missions  
>set for this year (one for April [which we are hoping for the most], one for  
>November).

>FYI: we are hoping to do this partly out of personal  
>interest, and partly as PR within Austin and central Texas [or as far as  
>the news will reach] for our club and for space exploration and amateur radio  
>as a whole.

>Thanx and 73's,

>Robert Camama  
>KB2CLL

Bob - most often it's the ARRL's Educational Activities  
Department which coordinates the efforts of clubs and individuals  
wishing to QSO with SAREX missions.

If you'd like, I'd be happy to forward any formal inquiry you  
(you) have to ARRL HQ's Educational Activities Department.

73 de KY1T (LHURDER@ARRL.ORG)

-----  
Date: Fri, 28 Jan 1994 19:15:59 GMT  
From: usc!howland.reston.ans.net!pipex!zaphod.crihan.fr!univ-lyon1.fr!  
swidir.switch.ch!scsing.switch.ch!news.dfn.de!news.dfn.de!zib-berlin.de!news.th-  
darmstadt.de!fauern!lrz-muenchen.de!news@@.  
Subject: CW filters and DSP-9  
To: info-hams@ucsd.edu

According to the discussion below and previous postings, I want to  
supply some calculations shown in two pictures in following postings  
based on a Fourier analysis of a morse signal of 10 times 'e':  
000001010101010101010100000

For that, I assumed a period of 120 ms for one dot, which needs two time  
units of 60 ms: '10'  
(50 time units per word, e.g. 'paris', 20 wpm -> 60 ms per unit)

The first picture will show the frequency spectrum for that morse pattern.  
( 'morse1.jpg', uuencoded, size: 72833 kB)

The second diagram will show the morse signals after passing filters  
with different cut-off frequencies: 25 Hz, 50 Hz, 125 Hz, 250 Hz;  
These frequencies apply to one sideband, so the filter bandwidth for

the whole signal is twice the frequency according to two sidebands, respectively. For the filter, a flat passband and perfect cutting off is assumed. The calculation is just the Fourier sum of the peak frequencies obtained from the spectrum in picture 1. Here you can see one possible reason for the ringing of narrow filters which cut off the higher frequency components of a signal. The lower the cut-off frequency, the wavier is the signal. Modulated with 700 Hz, you'll get your ring ;^)

('morse2.jpg', uuencoded, size: 61701 kB)

Further you can see, how the rise times are affected by the filter bandwidths. The cut-off frequency determines the shortest possible rise time for the signal. So, the narrower your filter is, the mushier are the dits.

Matthias

In article <1994Jan28.094649.14098@ee.surrey.ac.uk> M.Willis@ee.surrey.ac.uk (Mike Willis) writes:

> In article <CK95Mz.Krt@srgenprp.sr.hp.com>, alanb@sr.hp.com (Alan Bloom) writes:

> |> Ignacy Misztal (ignacy@ux2.cso.uiuc.edu) wrote:

> |> : wvanhorn@magnus.acs.ohio-state.edu (William E Van Horne) writes:

> |>

> |> : >Kein{nen Paul wrote:

> |>

> |> : >Can someone with a great deal more technical knowledge than I have

> |> : >state just what is the minimum usable bandwidth for a 10-20 WPM CW

> |> : >signal, and how much audible ringing is truly inescapable?

> |>

...

> |> The highest pulse repetition frequency is when you are sending a

> |> string of dits (for example, the letter H or the number 5.)

> |> My previous example of 48 wpm results in 20 dots per second.

> |> A Morse code signal can be considered to be an AM (amplitude

> |> modulated) signal that is 100% modulated with a square wave, in

> |> this case a 20 Hz square wave. Since an AM signal has two sidebands,

> |> the bandwidth must be at least 40 Hz.

>

> I suppose that is one way of looking at it. Another is to assume morse is simply

> made up of dots, followed either by a space or another dot, giving all the

> combinations necessary. The highest frequency signal is the error, 8 dots. At a

> speed of 12 wpm (UK test value) we have 5 dots per second, requiring a minimum

> bandwidth of 10 Hz for an am carrier (5 Hz for PSK) when using a brick wall filter

> and loads of ringing, or about double the bandwidth with a nice ring free response.

>

--

Matthias Rosenberger, Walter Schottky Institut, TU Muenchen  
email: me@next45.wsi.physik.tu-muenchen.de

-----

Date: Fri, 28 Jan 1994 18:07:56 GMT  
From: usc!sol.ctr.columbia.edu!news.kei.com!world!dts@network.ucsd.edu  
Subject: FCC form 610-V  
To: info-hams@ucsd.edu

In article <CKCH7t.9ED@ra.nrl.navy.mil> drumhell@claudette.nrl.navy.mil (David Drumheller) writes:

>In article <2i9483\$n3c@cronkite.nersc.gov> Greg@epitome.er.doe.gov (Greg Chartrand) writes:

>> In the FCC announcement regarding vanity callsigns, they stated that  
>> every application for a specific callsign would have to be made on a  
>> form 610-V.

>>

>> [the rest deleted]

>

> So what's all this stuff about vanity callsigns? Is it now, or will it  
> be possible in the future to choose your own callsign, assuming, of  
> course, that someone else doesn't already have it? (I wouldn't mind

Read the February QST!!! Lots of coverage on the subject.

>getting W4DMD.) I've been marginally active for the past four years, so  
> I'm not familiar on the latest changes to the rules and regulations.

>

> BTW, in the latest issue of QST I noticed that most of the two by three  
> amateur callsigns (technician/general) have been issued. I assume that the  
> FCC is now issuing novice callsigns to new tech/tech+/general licensees.  
> Is this true? In light of this, is there any serious talk about reissuing  
> callsigns from expired licenses?

>

>-Dave

>--

>David M. Drumheller, KA3QBO           phone: (202) 767-3524  
>Acoustics Division, Code 7140       fax: (202) 404-7732

>Naval Research Laboratory  
>Washington, DC 20375-5350 e-mail: drumhell@claudette.nrl.navy.mil

--

```
-----
Daniel Senie                Internet:    dts@world.std.com
Daniel Senie Consulting      n1jeb@world.std.com
508-365-5352                Compuserve:  74176,1347
-----
```

Date: Fri, 28 Jan 1994 18:35:20 GMT  
From: netcomsv!netcom.com!wy1z@decwrl.dec.com  
Subject: FTP site for Keps  
To: info-hams@ucsd.edu

In article <199401272136.NAA04990@ucsd.edu> ST1860@SIUCVMB.SIU.EDU (Gary R. Smith AA9JS) writes:

>Hi--

>

> I know there is an ftp site out there for getting the keplarian elements. I  
> use to remember what it was, but I have long since forgotten it. I would appreciate any help.....Thanx & 73's....Gary AA9JS

>

>internet: st1860@siucvmb.siu.edu  
>bitnet: st1860@siucvmb.bitnet  
>packet: aa9js@kd9sg.#sil.il.usa  
>

I store ALL bulletins on World: ftp world.std.com  
cd pub/hamradio/BARC/w1aw-list/Keplarian-Data

Note the case of the subdirectories                    ^^^^                    ^^^^^^^^^^^^^^^^^

73,  
Scott, WY1Z

--

```
=====
| Scott Ehrlich           Internet: wy1z@neu.edu      BITNET: wy1z@NUHUB  |
| Amateur Radio: wy1z      AX.25: wy1z@k1ugm.ma.usa.na      |
|-----|
| Maintainer of the Boston Amateur Radio Club hamradio FTP area on      |
| the World - world.std.com pub/hamradio      |
|
```

=====

-----

Date: 27 Jan 1994 22:19:35 GMT  
From: agate!farallon.farallon.com!asuvax!ennews!mcdphx!schbbs!mothost!ftpbox!  
news.acns.nwu.edu!aragorn16.acns.nwu.edu!user@network.ucsd.edu  
Subject: LAMARSfest is March 27th!!!!  
To: info-hams@ucsd.edu

#### LAMARSFEST 1994 INFORMATION

State of Event: Illinois

City or Town:  
Lake County, IL Fairgrounds, Grayslake, IL

Date of Event:  
March 27, 1994

Name of Event:  
LAMARSFEST 1994

Sponsor:  
Libertyville & Mundelein Amateur Radio Society &  
North Shore Radio Club

Directions to Event:  
North & Southbound I-94 exit IL-120, West to US-45, continue West 1/3 mile  
to Fairgrounds entrance on right. Alternative entrance off US-45 2 blocks N  
of 120 on left.

Admission Fee:  
\$4.00 by mail with SASE by March 18; \$5.00 at door. Swapfest tables  
\$10.00. Wall tables \$15.00 Commercial tables \$25.00 by advance reservation  
only. No additional charge for power.

Time of Event:  
Doors open at 8:00 AM, close at 2:00 PM  
Setup at 6:00 AM. Advance commercial setup by reservation.

Talk-in:  
147.945/.345 (North Shore Radio Club Repeater); 146.52 Simplex

Special Features:  
Large indoor radio, computer & electronic swapfest; Commercial exhibitors;  
Rest area; park free; public cafeteria.

VE testing 9:00 - Noon

Info & Reservations:

Frank Avellone, W9GL0

LAMARSFEST

93 P.O. Box 437

Lake Bluff, IL 60044

Tel: 708-234-4124 until 10:00 PM

\*\*\*\*\*

HAMFEST LISTING AS FOLLOWS

GRAYSLAKE, (LAKE COUNTY) ILLINOIS

March 27, 1994

LAMARSFEST

The Libertyville & Mundelein Amateur Radio Society (LAMARS), assisted by the North Shore Radio Club, will hold its annual LAMARSFEST 94 at the Lake County Fairgrounds, Routes IL-120 & US-45. Large all indoor electronic, radio & computer swapfest, commercial exhibitors. Rest area, free parking, public cafeteria. VE testing 9:00 - Noon. General admission is \$4 in advance with SASE, \$5 at door. Swapfest tables \$10; Wall tables \$15; Commercial tables \$25 by reservation only. Talk-in on 147.345+ NORTH SHORE RADIO CLUB repeater; 146.52 simplex. Doors open at 8:00 AM, setup from 6:00 AM. For information write LAMARSFEST 93, PO Box 437, Lake Bluff, IL 60044, or call Frank Avellone, W9GL0 at 708-234-4124 before 10:00 PM.

--

```
-----
|      Dave Alpert, KB9CNU      | Packet Radio:
|      440 No. Western Ave.     | KB9CNU@W8LVN.IL.US.NOAM
|      Lake Forest, IL         | Direct packet through ILWIN(145.57)
|      708-295-6078 (voice)    | CI$: 70416,124
|      708-295-6926 (MACropoedia BBS) | America Online: Dalpert
|      708-295-1927 (FAX)     | GEnie: DAlpert
|      MS-DOS, Just Say NO!    |
|-----| Friends don't let friends do DOS!
```

Date: Fri, 28 Jan 94 13:33:34 EST

From: agate!news.Brown.EDU!noc.near.net!yale.edu!spool.mu.edu!

howland.reston.ans.net!europa.eng.gtefsd.com!ulowell!wang!tossport!

lee@network.ucsd.edu

Subject: Name of Ham store in VA wanted!

To: info-hams@ucsd.edu

Can anyone hel pme with the name, address and phone number of  
a ham store in Virginia?

The name is something like "Skyline Ham Supplies" - he carries a  
lot of seconed hand Collins and Dovetron stuff.

(Whoops, need a better poof reading program....)

Thanks,

Lee.

(If Jesus is coming, think he'll QSL? Wonder who his QSL manager'll  
be..?)

-----

Date: 31 Jan 1994 02:35:49 GMT  
From: news.sprintlink.net!news.clark.net!kenf@uunet.uu.net  
Subject: Name of Ham store in VA wanted!  
To: info-hams@ucsd.edu

Lee Reynolds (lee@tosspot.sv.com) wrote:

: Can anyone hel pme with the name, address and phone number of  
: a ham store in Virginia?

: The name is something like "Skyline Ham Supplies" - he carries a  
: lot of seconed hand Collins and Dovetron stuff.

: (Whoops, need a better poof reading program....)

: Thanks,

: Lee.

: (If Jesus is coming, think he'll QSL? Wonder who his QSL manager'll  
: be..?)

I believe you are thinking of a store that used to be in Leesburg, VA.  
They closed about a year ago. Sold most of their stuff to G and G  
Electronics in Gathersburg, MD. (phone 301-258-7373). I heard the owner  
of the Leesburg store may still be doing some business from his home.  
You might call G&G for more info, or G&G might have what you need, the  
store looks like one fine junkbox.

--

=====



Ken Firestone, N3JBU       | If you look at things right, its best not to know  
kenf@clark.net           | who you really are. Because anything that happens  
                             | to anybody who doesn't know who he really is  
                             | actually happens to somebody else. So it makes no  
                             | difference at all. -- Nelson Algren.

=====

-----

Date: 31 Jan 1994 02:09:23 GMT  
From: sdd.hp.com!usc!yeshua.marcam.com!zip.eecs.umich.edu!caen!malgudi.oar.net!  
news.ysu.edu!yfn.ysu.edu!au156@network.ucsd.edu  
Subject: Online Repeater Database Helper Program  
To: info-hams@ucsd.edu

I have written a program to make it easier to enter data into the Online Repeater Database devised and managed by Conway Yee ( yee@mipg.upenn.edu). He is looking for volunteers to enter the information available publicly from several sources.

If you are right now, or were seriously contemplating doing some of this work, and are interested, you may email me about the program. I would like to have a few people try it out. If it seems appropriate, it might be possible to have it available by ftp somewhere. For the moment, copies will be distributed by uuencode.

What follows is an excerpt from Conway's last message about the status of the project. (SInce this message, I've done MA and OR with 1991 data.) :

-----  
This version 0.02 (last updated 19940120) of an online repeater directory which currently contains over 1800 entries. All previous versions are obsolete.

There are entries for AK, CT, DC, DE, HI, ID, KY, ME, MT, NC, ND, NH, NJ, NV, NY, PA, RI, SD, UT, VT, WV, WY. Since the last time this data base was posted, I have added one state and two volunteers have added four more.

Thus far, people have volunteered for

- 1) AZ
- 2) KY, MS, SC, TN, VI, WV, GA (two states already done but the current data will be replaced with up to date information).

If everybody follows through with their intentions, we will soon have over half the United States accounted for.

This file with all the data is be available for anonymous ftp as  
mipg.upenn.edu:/pub/yee/rptr002.Z

-----  
Hank Riley, N1LTV  
au156@yfn.ysu.edu

-----  
Date: 1 Feb 1994 05:39:10 GMT  
From: news.service.uci.edu!mothra.nts.uci.edu!lockhart@network.ucsd.edu  
Subject: Quake Alert via Amateur Radio  
To: info-hams@ucsd.edu

I thought people in these newsgroups would find this info to be of  
interest.

In a post from another newsgroup someone said:

"A recent posting made mention of a "Quake Awake" device which warns of  
P-waves which preceed S-waves in a quake. Can anyone give me more  
information on this device?"

And someone else said:

"I bought two "Quake Awakes" after Loma Prieta. Not because I thought  
they would be particularly useful as a warning device, but because I  
found the concept interesting. Subsequent postings to the net  
ndicated that they were not particularly reliable, but since we ave  
had \*no\* noticeable quakes in the last four years, I have no mpirical  
evidence :-(."

And finally I said:

"Better yet, if you are a amateur radio operator or have a scanner,  
you may be interested in a SEISMIC DETECTOR on frequency 445.400 MHz.

Someone has a seismometer interfaced to a radio transmitter. Perhaps  
it is the USGS. I just don't know. Anyway, this unit probably picks  
up P waves (and maybe S waves) from a seismometer somewhere in the  
mountains in the Los Angeles basin. The transmitter sends out a tone  
on some secret frequency. Maybe it is not so secret, but, I don't  
remember it.

Anyway, the ALERT group knows the frequency regenerates the signal and  
pipes it via landline to one of its repeaters on Easter Hill (My note:  
located in the hills of Orange, CA). We get a 8-14 second warning

Here is info from one of the bulletins sent to ALERT members.

The new seismic detector on the 445.400 MHz repeater continues to work great. A 186.2 Hz CTCSS tone will be heard over the repeater during earthquake events. To use this new feature set your radio frequency to 445.400 MHz and your PL to 186.2 Hz decode (stored this into an extra memory slot for easy access). Whenever an event occurs your radio will pass the earthquake warning tones but normal conversation on the repeater will be muted. This great new feature allows your radio to stay on all night in a mute mode. Please remember when you hear the earthquake tones coming through the 445.500 MHz Easter Hill repeater we ask all members to stop QSO's and stand by until the warning tones stop coming through the link. This allows all members to get a bearing on where the earthquake activity might be. This seismic tone will continue to be TESTED at 9:00 PM every Monday and once again at the conclusion of the Net around 9:25 PM. Thanks Gary - WA6SUL for maintaining this important ALERT system feature.

~jack\_

-----

In article <mosier.66.0@fagan.uncg.edu> mosier@fagan.uncg.edu (Stephen Mosier)

writes:

```
>Will Turner said that wuarchive.wustl.edu has Supermorse 4.04 in /mirrors/  
>msdos/hamradio. But the wuarchives were wiped out last week and that  
>directory path no longer exists. Does anyone know of any other source for  
>Supermorse 4.xx?  
>  
>steve  
>mosier@fagan.uncg.edu
```

Anonymously FTP into World: ftp world.std.com  
pub/hamradio/pc/theory-and-morse/sm404.zip

73,  
Scott, WY1Z

--

```
=====
| Scott Ehrlich           Internet: wy1z@neu.edu      BITNET: wy1z@NUHUB  |
| Amateur Radio: wy1z      AX.25: wy1z@k1ugm.ma.usa.na          |
|-----|
| Maintainer of the Boston Amateur Radio Club hamradio FTP area on |
| the World - world.std.com pub/hamradio                        |
=====
```

-----

Date: Mon, 31 Jan 1994 00:24:13 GMT  
From: voa3!ck@uunet.uu.net  
Subject: Voice of America News Now Available on Internet  
To: info-hams@ucsd.edu

The Voice of America's international News and English Broadcasts radio newswire is now available via anonymous FTP and the Internet Gopher, along with a variety of other information from VOA and Worldnet Television.

The News and English Broadcasts wire service includes the texts, in English, of radio reports prepared by VOA staff correspondents, contract news reporters ("stringers"), and feature and documentary writers. The wire provides a comprehensive daily report of news events, worldwide. It is one of the core news products of the Voice of America, and is used as the basis for much of VOA's programming in all languages. The public Internet server is updated within a few minutes of the issuance of each report by the VOA central news department; a seven-day archive of the wire is available on the public server.

In accordance with U.S. law, program materials such as the News and English Broadcasts newswire are provided exclusively for recipients outside the United States.

Selected VOA and Worldnet program schedules, shortwave radio frequency and satellite downlink information, public announcements from the Voice of America and Worldnet, and technical documents on international radio and television broadcasting are also available on the public Internet server.

All the materials on the server are available by anonymous FTP and the Internet Gopher. Schedules and other general information materials may also be requested via electronic mail; the News and English Broadcasts newswire is not available via email because its contents change so rapidly.

The Voice of America and Worldnet are, respectively, the international radio and television networks of the United States Information Agency, and operate out of headquarters in Washington, D.C. VOA has news bureaus in many major world cities.

#### Anonymous FTP Access

=====

Host: ftp.voa.gov  
Logon: anonymous  
Password: <your electronic mail address>

#### Internet Gopher Access

=====

Host, Port: gopher.voa.gov, 70

#### Link Info:

-----  
Type=1+  
Name=Voice of America and Worldnet Television  
Path=  
Host=gopher.voa.gov  
Port=70  
Admin=VOA Computer Services Division, +1-202-619-2020 <postmaster@VOA.GOV>  
-----

#### Electronic Mail Access

=====

Address: info@voa.gov

To request emailed instructions on how to use the server, send a message with the contents "send help" to the above address.

To request emailed instructions on how to use the server plus an index of available files, send a message with the contents "send index" to the above address.

[Note: We are still in the early stages of transition from a uucp-only site. Some client programs may temporarily have difficulty resolving the IP address of our public server (ftp.voa.gov or gopher.voa.gov) until their local name server receives updated information on the VOA.GOV DNS zone. If you experience difficulty connecting to these symbolic address, the IP address of the server is 152.75.16.1.]

--

Chris Kern      ck@voa.gov      ...uunet!voa3!ck      +1 202-619-2020

-----

Date: 29 Jan 1994 12:57:15 -0800

From: library.ucla.edu!csulb.edu!paris.ics.uci.edu!not-for-mail@network.ucsd.edu

Subject: Your experiences on 40 meter CW QRP

To: info-hams@ucsd.edu

In <2ie8ki\$2ih@clarknet.clark.net> andy@clark.net (Andrew M. Cohn) writes:

>If you work 40 meter CW, with 5 watts or less, and use less than ideal  
>antennas (no beams, dipoles or rhombics, etc), I would like to hear about  
>your experiences. No...I'm not writing a book; I just want to know what  
>I can expect before investing in a QRP station!

Hello Andy:

I am not sure what you mean by "less than ideal antenna" if you exclude dipole. The dipole is the basic antenna for me, and I use QRP, mainly SSB, sometimes CW, and almost always on 40 meters. Do you intend to use a quarter wave vertical? A mobile whip?

It is really hard to predict what sort of experience you will have with QRP from your QTH. Really hard. I have had a lot of luck, even with a mobile whip on the car using QRP. You muse realistic, but also know that things can happen with QRP that others just won't believe.

I have worked a LOT of DX on 40 SSB with 5 watts and a dipole. A LOT. But this is by patient working and late late nights and stalking guys and things like that. Other times it has actually been easy. There are even a few hams locally who run 100 watts with other dipoles and verticals and on occasion, I get as good a signal report as they do, even when I ask for a real one.

40 CW is really interesting. The antenna is the key, not really the power. 5 watts is plenty for most contacts under a lot of circumstances. My only advice to you is to very carefully consider the sort of antenna you will use. A good dipole, even shortened, up 20 feet or more should be fine. A 50 foot long wire made of invisibly thin wire thrown into a tree or over a roof will work fine also. Good luck.

Clark  
WA3JPG

-----  
End of Info-Hams Digest V94 #97

\*\*\*\*\*  
\*\*\*\*\*